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PTO/SB/21 (08-00)

Approved for use through 10/31/2002 OMB 0651-0031
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/761,792
	Filing Date	01/17/2001
	First Named Inventor	Quanmin C. Su et al.
	Group Art Unit	2829
	Examiner Name	Vinh P. Nguyen
Total Number of Pages in This Submission	Attorney Docket Number	528.014

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard Request to Approve Drawing Changes 2 Sheets of Drawings with changes shown in red (Figs. 1 and 5)
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jay G. Durst Boyle Fredrickson Newholm Stein & Gratz, S.C. 250 E. Wisconsin Avenue, Suite 1030 Milwaukee, WI 53202
Signature	
Date	4/25/03

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this date: 04/25/2003			
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TOTAL AMOUNT OF PAYMENT (\$ 410.00)

Complete if Known

Application Number	09/761,792
Filing Date	January 17, 2001
First Named Inventor	Quanmin C. Su et al.
Examiner Name	Vinh P Nguyen
Group Art Unit	2829
Attorney Docket No.	528.014

METHOD OF PAYMENT1 ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments toDeposit
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50-1170

Boyle, Fredrickson, Newholm, Stein & Gratz S.C.

☒ Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17
Applicant claims small entity status.
See 37 CFR 1.27
2 ☒ Payment Enclosed:
☒ Check ☐ Credit Card ☐ Money
Order ☐ Other
FEE CALCULATION**1. BASIC FILING FEE**

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	201		
Multiple Dependent	301		

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

** or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	410	216	205	Extension for reply within second month	410
117	630	217	315	Extension for reply within third month	
118	1,450	218	725	Extension for reply within fourth month	
128	1,970	228	985	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (PCE)	
163	900	163	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$410.00)

SUBMITTED BY

Name (Print/Type) Jay G. Durst

Signature

Registration No.
(Attorney/Agent)

41,723

Complete (if applicable)

Telephone (414) 225-9755

Date

4/25/03

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Christine Kierzek
Christine Kierzek

Date: 4.25.03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/761,792

Examiner: Vinh P. Nguyen

Filing Date: January 17, 2001

Group Art Unit: 2829 *H.18*

Inventor: Quanmin C. Su and William I. Russell

For: *Method And Apparatus For Reducing The Parachuting Of A Probe*

REPLY

Director of the U.S. Patent
and Trademark Office
Washington, DC 20231

Sir

In reply to the Office Action dated November 25, 2002, please amend the above-identified application as follows:

In The Specification:

Please replace the paragraph in the specification at page 8, lines 3-22, with the following rewritten paragraph:

In controlling the Z-module, the paraboot module 110 processes oscillation amplitude, phase, and/or other properties of the probe 120. These properties are detected, for example, by processing the signals produced by any number of standard detector schemes 105, such as a laser reflecting off the back side of the cantilever and onto a bi-cell or quad detector. An error signal from the detector is sent to the control module 150. If the oscillation amplitude of the probe 120 is too high, for example, the non-zero error signal is integrated and accumulated by the control module 150. When enough error signal is integrated, the control module 150 commands the Z-